

Title	Vector-lattice ノ Distributive Law ノ 証明二就テ
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Citation	全国紙上数学談話会. 228 p.646-p.646
Issue Date	1941-12-16
oaire:version	VoR
URL	https://doi.org/10.18910/74918
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Note	

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988. Vector lattice, distributive law / 証明 = 就テ

中野 秀五郎 (東大)

Vector lattice, distributive law

$$(a \wedge b) \vee c = (a \vee c) \wedge (b \vee c)$$

ハ色々 + 証明ガアリマスガ、次ノ様ニスルト complete
ノ場合ニ全時ニ簡單ニ証明出来マス。即チ

$$(\bigwedge a_\alpha) \vee b = \bigwedge (a_\alpha \vee b)$$

ヲ証明致シマス。

$$(\bigwedge a_\alpha) \vee b \leq a_\alpha \vee b. \text{ ハ明カニ成立致シマス。}$$

総テ、 α ニ対シテ

$$x \leq a_\alpha \vee b$$

トスレバ

$$x \leq a_\alpha + b - a_\alpha \wedge b$$

$$x + a_\alpha \wedge b \leq a_\alpha + b$$

故ニ

$$\bigwedge (x + a_\alpha \wedge b) \leq \bigwedge (a_\alpha + b)$$

$$\text{即チ } x + (\bigwedge a_\alpha) \wedge b = x + \bigwedge (a_\alpha \wedge b) \leq \bigwedge a_\alpha + b$$

$$\text{故ニ } x \leq \bigwedge a_\alpha + b - (\bigwedge a_\alpha) \wedge b = (\bigwedge a_\alpha) \vee b$$

従ツテ

$$(\bigwedge a_\alpha) \vee b = \bigwedge (a_\alpha \vee b)$$

トナリマス。

(1941, 11, 29)